

## COMBINED DECLARATION AND POWER OF ATTORNEY

As a below-named inventor, I hereby declare that:

My residence, post office address, and citizenship are as stated below next to my name; and

I verily believe that I am the original, first and sole inventor (if only one name is listed below) or an original, first, and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: NUCLEATE BOILING SURFACES FOR COOLING AND GAS GENERATION, the specification of which:

[XX] is attached hereto.

[ ] was filed on \_\_\_\_\_ as  
Application Serial No. \_\_\_\_\_ and  
was amended on \_\_\_\_\_.  
(If applicable.)

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any Amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with 37 C.F.R. §1.56(a).

I hereby claim foreign priority benefits under 35 U.S.C. §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of any application on which priority is claimed:

Country	Number	Date Filed	Priority Claimed
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

I hereby claim the benefit under 35 U.S.C. §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application

## PATENT

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is not disclosed in the prior United States application in the manner provided by the first paragraph of 35 U.S.C. §112, I acknowledge the duty to disclose material information as defined in 37 C.F.R. §1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

Application Serial No.	Filing Date	Status (patented, pending)
<u>529,787</u>	<u>May 25, 1990</u>	<u>Pending</u>
<u>409,980</u>	<u>September 18, 1989</u>	<u>Abandoned</u>
<u>159,713</u>	<u>February 24, 1988</u>	<u>Abandoned</u>
_____	_____	_____

I hereby appoint Peter J. Cronk, Registration No. 32,021, of the law firm SYNNESTVEDT & LECHNER, 2600 One Reading Center, 1101 Market Street, Philadelphia, Pennsylvania 19107, to prosecute this application and to transact all business in the United States Patent and Trademark Office connected therewith, and

Address all correspondence and telephone calls to:

Peter J. Cronk  
SYNNESTVEDT & LECHNER  
2600 One Reading Center  
1101 Market Street  
Philadelphia, Pennsylvania 19107  
(215) 923-4466

I hereby declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. §1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

1	Full Name Benjamin Gebhart	Inventor's Signature <i>Benjamin Gebhart</i>	Date <i>Sept 27, 1991</i>
	Residence 612 Woodleave Road, Bryn Mawr, Pennsylvania 19010		
	Citizenship USA		
2	Post Office Address 612 Woodleave Road, Bryn Mawr, Pennsylvania 19010		
	Full Name	Inventor's Signature	Date
	Residence Citizenship		
3	Post Office Address		
	Full Name	Inventor's Signature	Date
	Residence Citizenship		
4	Post Office Address		
	Full Name	Inventor's Signature	Date
	Residence Citizenship		
5	Post Office Address		
	Full Name	Inventor's Signature	Date
	Residence Citizenship		
5	Post Office Address		

PATENT  
Sole Inventor

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A S S I G N M E N T

I, Benjamin Gebhart, hereby declare that I am the sole inventor of the invention relating to NUCLEATE BOILING SURFACES FOR COOLING AND GAS GENERATION described in an application for Letters Patent of the United States of America.

The Trustees of the University of Pennsylvania, hereinafter referred to as the assignee, of Philadelphia, Pennsylvania, a non-profit corporation of Pennsylvania, is desirous of acquiring the entire right, title, and interest in and to the said inventions or improvements and in and to the said application, and in, to, and under any and all Letters Patent which may be granted on or as a result thereof in any and all countries.

For and in consideration of the sum of One Dollar (\$1.00) to me in hand paid by said Trustees of the University of Pennsylvania, and other good and valuable consideration, the receipt of which is hereby acknowledged, I, the said Benjamin Gebhart have sold, assigned, transferred, and set over, and by these presents do hereby sell, assign, transfer, and set over, to said assignee, the entire right, title, and interest in and to said inventions or improvements and said application and any and all continuations, divisions and renewals of and substitutes for said application, and in, to, and under any and all Letters Patent which may be granted on or as a result thereof in the United States of America and any and all other countries, and any reissue or reissues or extension or extensions of said Letters Patent, and assign to and authorize said assignee to file in my name applications for Letters Patent in all countries the same to be held and enjoyed by said assignee, its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Letters Patent respectively may be granted, reissued, or extended, as fully and entirely as the same would have been held and enjoyed by me had this Assignment, sale, and transfer not been made.

I hereby covenant that I have full right to convey the entire interest herein assigned, and that I have not executed and will not execute any agreement in conflict herewith, and I further covenant and agree that I will each time request is made and without undue delay, execute and delivery all such papers as may be necessary or desirable to perfect the title to said inventions or improvements, said application and said Letter Patent to said assignee, its successors, assigns, nominees or legal representatives, and I agree to communicate to said assignee, or to its nominee all known facts respecting said inventions or improvements, said application and said Letters Patent, to testify in any legal proceedings, to sign all lawful papers, to execute all

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Sole Inventor

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disclaimers and divisional, continuing, reissue, and foreign applications, to make all rightful oaths, and generally to do everything possible to aid said assignee, its successors, assigns, nominees, and legal representatives to obtain and enforce for its or their own benefit proper patent protection for said inventions or improvements in any and all countries, all at the expense, however, of said assignee, its successors, assigns, nominees or legal representatives.

I hereby authorize and request the Commissioner of Patents and Trademarks of the United States of America and any official of any country or countries foreign to the United States of America whose duty it is to issue patents on applications as aforesaid, to issue to said assignee, as assignee of the entire right, title, and interest, any and all Letters Patent for said inventions or improvements, including any and all Letters Patent of the United States of America which may be issued and granted on or as a result of the application aforesaid, in accordance with the terms of this Assignment.

In witness whereof, I have hereunto set my hand and seal.

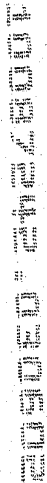
Signed at \_\_\_\_\_ Dated Sept 27, 1991  
Inventor Benjamin Gebhart  
Benjamin Gebhart  
Address 612 Woodleave Road  
Bryn Mawr, Pennsylvania 19010  
1st Witness Elizabeth Pugh Elizabeth Pugh  
(Type or Print Name) (Signature)  
2nd Witness \_\_\_\_\_  
(Type or Print Name) (Signature)

This 27th day of September, 1991, before me personally came the above-named Benjamin Gebhart, personally known as the individual who executed the foregoing assignment, who acknowledged to me that he executed the same of his own free will for the purposes therein set forth.

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Kimberly D. L. Crave  
Notary Public



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BOX ISSUE FEE  
Attorney Docket No. D0934-00035

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Benjamin Gebhart

Filed: June 7, 1995

Examiner: John K. Ford

Serial No.: 08/485,161

Group Art Unit: 3743

For: NUCLEATE BOILING SURFACES FOR COOLING AND GAS GENERATION

REVOCATION OF PRIOR POWER OF ATTORNEY AND  
POWER OF ATTORNEY UNDER 37 C.F.R. §1.36

Commissioner for Patents  
Washington, D.C. 20231

Sir:

The Trustees of the University of Pennsylvania, the assignee of the entire right, title, and interest in this patent application, hereby revokes all Powers of Attorney previously granted relating to this application and appoints

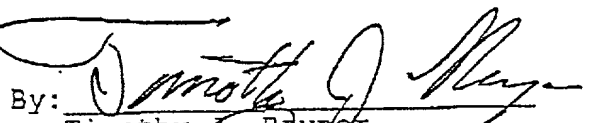
Nath & Associates PLLC, Customer No. 20529, and Gary M. Nath, Reg. No. 26,965; Harold L. Novick, Reg. No. 26,011; Todd L. Juneau, Reg. No. 40,669; Lee C. Heiman, Reg. No. 41,827; Jerald L. Meyer, Reg. No. 41,194; Joseph K. Hemby, Reg. No. 42,652; Joshua B. Goldberg, Reg. No. 44,126; Marvin C. Berkowitz, Reg. No. 47,421; and Sheldon M. McGee Reg. No. P-50,454,

as its attorneys or agents, with full power of substitution, association, and revocation, to prosecute this application and transact all business in the U.S. Patent and Trademark Office connected therewith.

Please send correspondence to: Gary M. Nath, NATH & ASSOCIATES PLLC, Customer No. 20529, 1030 Fifteenth Street, N.W., 6th Floor, Washington, D.C. 20005. Please direct telephone calls to Gary M. Nath at 202-775-8383, and facsimile communications to 202-775-8396.

The Trustees of the University of Pennsylvania

Date: January 31, 2002

By:   
Timothy J. Rayner  
Director, Intellectual Property